

# RECOM HPS DE KIT SPECIFICATION



## → General product information

<b>Product Name</b>	Lucius ReCom DE 600W Kit	Lucius ReCom DE 800W Kit	Lucius ReCom DE 1000W Kit
<b>Application</b>	Horticultural Industry / Green Fields / Ideal for flowering		
<b>Inclusion</b>	Lucius ReCom DE Ballast, ReCom DE Bracket - Focal / Broad Reflector DE - Indoor Sun Lamp		
<b>Light Kit PPF Efficacy</b>	1,72 PPF/W	1,76 PPF/W	1,85 PPF/W
<b>Maximum PPF</b>	1220 $\mu\text{mol/s}$	1550 $\mu\text{mol/s}$	2220 $\mu\text{mol/s}$
<b>Light Kit Weight</b>	4,4Kg / 9,7lbs	5,5Kg / 12,1lbs	5,6Kg / 12,3lbs
<b>Operating Temperature</b>	-20 to 40°C / -4 to 104°F		
<b>Shipping and Storage Temperature</b>	-40 to 70°C / -40 to 158°F		
<b>Operating Humidity</b>	0% to 90% non-condensing		
<b>Waterproof and dustproof</b>	IP20		

## → Indoor Sun Lamp






<b>Lamp Power</b>	600W	800W	1000W
<b>Type</b>	HPS Double Ended High Voltage 400V		
<b>Lamp Voltage</b>	205	235	245
<b>Max PPF</b>	1200 $\mu\text{mol/s}$	1550 $\mu\text{mol/s}$	2220 $\mu\text{mol/s}$
<b>Lamp PPF Efficacy</b>	1,79 PPF/W	1,84 PPF/W	1,92 PPF/W
<b>Lumen</b>	95000	125000	160000
<b>CCT - CRI</b>	2100K - 28%	2100K - 35%	2100K - 35%
<b>Base / operating position</b>	DE (K12 x 30s) / Horizontal (H)		
<b>Dimension ( L x Dia)</b>	393x33mm		
<b>Manufacturing Code</b>	HPS600/H/T33/DE/PRO HV	HPS800/H/T33/DE/PRO HV	HPS1000/H/T33/DE/PRO HV



## → Fixture

<b>REFLECTOR</b>	<b>Type</b>	Focal DE	BROAD DE
	<b>Material</b>	Stucco Aluminium Miro® 4	
	<b>Reflectivity</b>	95%	
	<b>Application</b>	Best choice for the professional gardeners Focal light concentration Highest average affective light Increased light penetration deep into plant canopy, ideal for high ceiling	Low ceiling preferred option Hanging close to the plant canopy Low bay / Wide spread Vented reflector reduce heat over plant
	<b>Compatible Lamps</b>	HPS DE 1000W/400V HPS DE 800W/400V	HPS DE 600W/400V CMH DE 630W/400V
	<b>Grow Light Coverage Area</b>	See the table of Grow Light Coverage Area on the packaging box	
<b>Manufacturing Code</b>	LF-F2	LF-B2	

<b>RECOM DE BRACKET</b>	<b>Lamp Holder</b>	DE (K12x30s)
	<b>Plug</b>	  AU/NZS 3112    US BAASR  UK & EU IEC 60320 C-14
	<b>Cable</b>	USA: 6 in., 3x16AWG AU/NZ, UK, EU, Asia: 0,15m, 3x1mm <sup>2</sup>
	<b>Manufacturing Code</b>	AU : LRCF-2A US : LRCF-2S UK : LRCF-2K EU : LRCF-2E

# RECOM HPS DE KIT SPECIFICATION

LUCIUS  
RECOM



## → Lucius ReCom Ballast

	600W	800W	1000W
<b>INPUT</b>	<b>Lucius ReCom DE Ballast</b>		
<b>Nominal Voltage</b>	USA:208/240V or 120/208/240V AU/NZ, UK, EU, Asia: 220/230/240V		
<b>Voltage Range</b>	USA: 195–265 or 110–265V AU/NZ, UK, EU, Asia: 195–265V		
<b>Max Current</b>	3A @ 240V 6A @ 120V	4A @ 240V 8A @ 120V	5A @ 240V 10A @ 120V
<b>Inrush Current</b>	< 30A/0,8mSec	< 40A/0,8mSec	< 50A/0,8mSec
<b>Input Frequency</b>	50/60Hz		
<b>Efficiency</b>	97%		
<b>Power Factor</b>	≥0,97		
<b>THDv</b>	<10%		
<b>Plug</b>			
<b>Cable</b>	USA: 8ft, 3x16AWG AU/NZ, UK, EU, Asia: 2.4m, 3x1.5mm <sup>2</sup> *All input cables are equipped with the magnet ring to meet EMC requirements.		
<b>PROTECTION</b>	<b>Over-voltage</b>		
	Protection mode is activated when the voltage is greater than 275V.		
	<b>Under-voltage</b>		
	240V: Undervoltage between 175 ~ 195v leads to 90% output power drop, Protection mode is activated when the voltage is less than 175V. 120V: Undervoltage between 95 ~ 110v leads to 90% output power drop, Protection mode is activated when the voltage is less than 95V.		
	<b>Short Circuit</b>		
	When the output is shorted, the ballast will be shut down & the LED will alarm error for short circuit protection. See <b>LED Status</b> . To reset the ballast error, disconnect and reconnect the power,		
	<b>Open Circuit</b>		
	When the output is disconnected for any reason during operation, the ballast will shut down & the LED will alarm error for open circuit protection. See <b>LED Status</b> . To reset the ballast error, disconnect and reconnect the power,		
	<b>Over-temperature</b>		
	When ambient temperature (Ta) is more than 40°C, the ballast will shut down & the LED will alarm error for high temperature protection. To reset the ballast error, keep the ambient temperature in the allowed operating range, disconnect & reconnect the power,		
	<b>Lamp END of Life / Rectification</b>		
	The ballast can protect against end of lamp life rectification.		
	<b>Time Delay</b>		
	All ballasts have built in ignition delay (0-6S randomly) to reduce the starting current,		
	<b>LED Status</b>		
	ON: Power is applied and the ballast is operating. (LED Illuminated) OFF: Power is not available at the input. (LED off) Blinking: Protection Mode,		

	600W	800W	1000W
<b>OUTPUT</b>	<b>Lucius ReCom DE Ballast</b>		
<b>Output Frequency</b>	>100KHz Ultra High Frequency		
<b>Voltage Range</b>	<300V		
<b>Max Ignition</b>	5KV		
<b>Ignition Interval</b>	1-5-5-5 minute *After 5 ignition failed attempts to turn the lamp on, the ballast will be shut down and the LED will alarm error. See <b>LED Status</b> . To reset the ballast error, disconnect and reconnect the power.		
<b>Plug</b>			
<b>Cable</b>	USA: 8in, 3x16AWG AU/NZ, UK, EU, Asia: 0.2m, 3x1.5mm <sup>2</sup> *All output cables are equipped with the magnet ring to meet EMC requirements.		
<b>GENERAL INFORMATION</b>	<b>Control Knob</b>		
	600W: MINIMUM - 400W - 600W - BOOST - LMC 800W: 400W - 600W - 800W - BOOST - LMC 1000W: 650W - 800W - 1000W - BOOST - LMC		
	<b>Controller (Optional)</b>		
	Able to connect to the Lucius Light Management Controller. Dimming, timing, temperature setting, simulating sunset and sunrise. See Lucius Light Management Controller instruction manual for more details.		
	<b>Signal Wire</b>		
	3,5mm Male Jumper Cable 5m		
	<b>Ballast Dimension LxWxH</b>		
	600W: 316x117x82,5mm 800W:302x190x106mm 1000W: 302x190x106mm		
	<b>Ballast Weight</b>		
	600W: 3,3Kg / 7,2lbs 800W: 4,4Kg / 9,7lbs 1000W: 4,5Kg / 9,9lbs		
	<b>Compatible Lamp</b>		
	600W: HPS 600W, HPS 600W/400V, HPS DE 600W/400V, MH 600W 800W: HPS DE 800W/400V 1000W: HPS 1000W, HPS DE 1000W/400V, MH 1000W		
	<b>Certification</b>		
	<b>Regulatory Standards</b>		
	IEC 61347-1:2007+A1:2010 (also as used AS/NZS 61347.1:2002) IEC 61347-2-12:2005+A1:2011 EN 55015(AS/NZS CISPR 15:2011) IEC 61000		
	<b>Manufacturing Code</b>		
	600W	AU/NZ: LRCE-6002441-HM1CDHA US: LRCE-6002441-HM1CDHS UK: LRCE-6002441-HM1CDHR EU: LRCE-6002441-HM1CDHE	
	800W	AU/NZ: LRCE-8002441-HM1CD5A US: LRCE-800122441-HM1CD5S UK: LRCE-8002441-HM1CD5K EU: LRCE-8002441-HM1CD5E	
	1000W	AU/NZ: LRCE-10002441-HM1CD5A US: LRCE-1000122441-HM1CD5S UK: LRCE-10002441-HM1CD5K EU: LRCE-10002441-HM1CD5E	